

**CTEH® Project #40442
West Fertilizer Plant Explosion
Summary of Air Monitoring Results
May 3, 2013 10:00**

This data report discusses real-time air monitoring data collected between 5/2/2013 07:00 and 5/3/2013 7:00 in support of remediation operations conducted near the West Fertilizer Plant Explosion in West, TX.

Real-time air monitoring was conducted for VOCs, ammonia (NH₃), and particulate matter (PM₁₀), using remote-telemetering RAESystems® AreaRAEs and hand-held instruments such as RAESystems® MultiRAE and Gastec colorimetric® detector tubes.

Tables 1 and 2 (below) display data summaries for hand-held and AreaRAE instruments, respectively. Site maps and charts are available as attachments.

**Table 1: Hand-held Real-time Air
Monitoring Summary¹
May 02, 2013 07:00 – May 03, 2013 07:00**

| Analyte | Instrument | Number of Readings | Number of Detections | Average of Detections | Range of Detections |
|------------------|------------|--------------------|----------------------|-------------------------|-------------------------|
| Community | | | | | |
| NH ₃ | Gastec 3L | 1 | 0 | NA | < 0.2 ppm |
| | MultiRAE | 1 | 0 | NA | < 1 ppm |
| VOC | MultiRAE | 1 | 0 | NA | < 0.1 ppm |
| Work Area | | | | | |
| NH ₃ | Gastec 3L | 3 | 0 | NA | < 0.2 ppm |
| | MultiRAE | 2 | 0 | NA | < 1 ppm |
| PM ₁₀ | AM510 | 1 | 1 | 0.025 mg/m ³ | 0.025 mg/m ³ |
| VOC | MultiRAE | 3 | 0 | NA | < 0.1 ppm |

¹Please note: The data displayed here has not undergone complete QA/QC analysis and is presented in a preliminary format.

PPM = Parts Per Million

Table 2
Stationary AreaRAE Monitoring Stations Data Logged
5/2/2013 07:00 to 05/03/2013 07:00

| Unit | Analyte | Count of Readings | Count of Detections | Average of Detections | Max Detection |
|--|---------|-------------------|---------------------|-----------------------|---------------|
| AR13 | NH3 | 5720 | 0 | NA | < 1 ppm |
| | VOC | 5720 | 0 | NA | < 0.1 ppm |
| AR14 | NH3 | 5421 | 0 | NA | < 1 ppm |
| | VOC | 5421 | 50 | 2.8 ppm | 6.3 ppm |
| AR16 Mobile Down Wind Unit | NH3 | 5686 | 0 | NA | < 1 ppm |
| | VOC | 5686 | 156 | 0.1 ppm | 0.1 ppm |
| AR17 | NH3 | 5667 | 0 | NA | < 1 ppm |
| | VOC | 5667 | 0 | NA | < 0.1 ppm |
| AR18 | NH3 | 5708 | 0 | NA | < 1 ppm |
| | VOC | 5708 | 0 | NA | < 0.1 ppm |

The data in this table may include electronic drift. Drift is defined as any interference in the electrochemical sensor's ability to accurately report the concentration of a chemical in the atmosphere. Humidity and temperature changes throughout the monitoring period are typical sources of drift. Additionally, the data has not undergone complete QAQC as of this time.

Appendix



Air Monitoring Zone Classifications¹ May 03, 2013

Project: 40442
Client: OMI
City: West, TX
County: McLennan

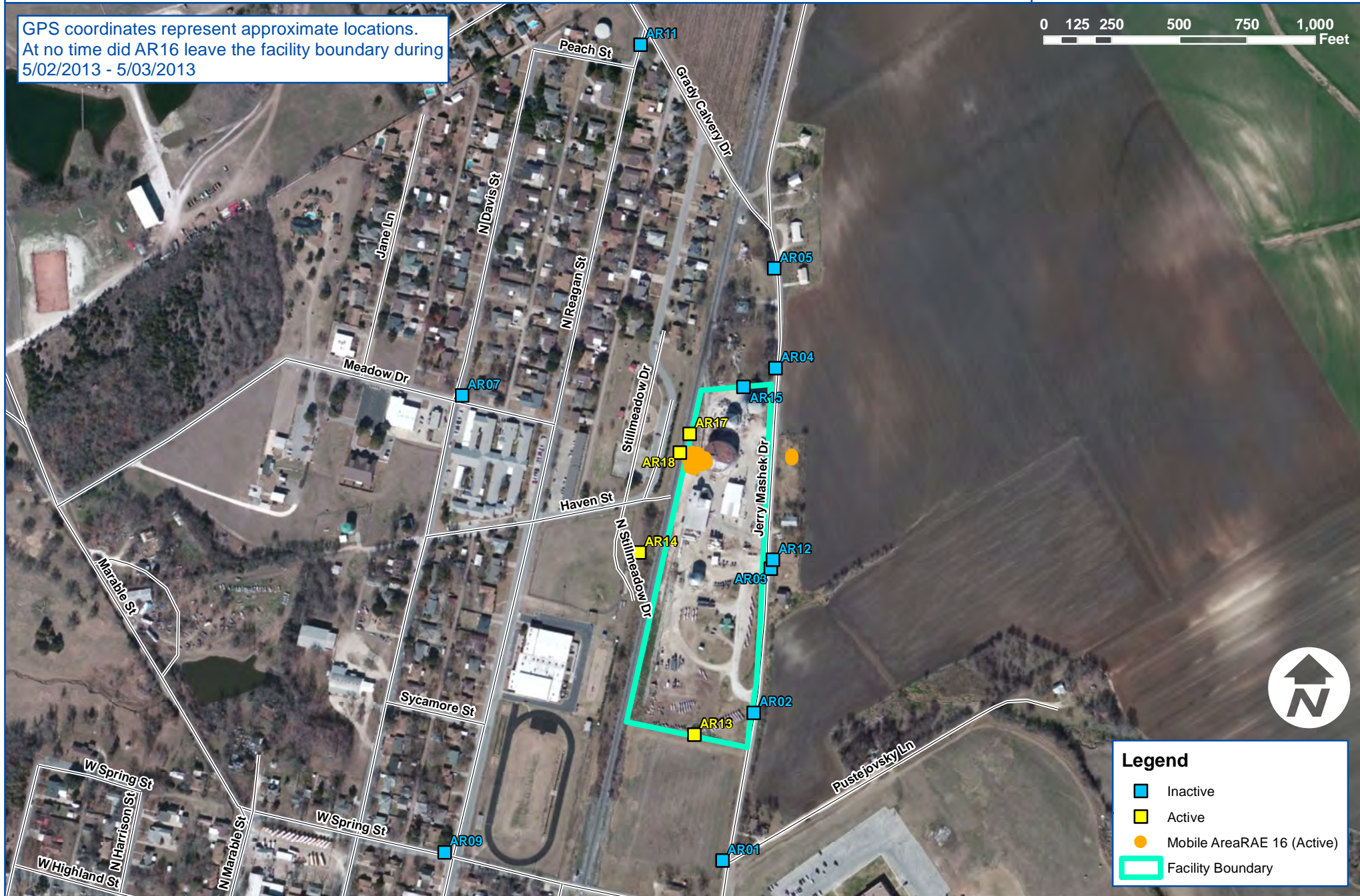


AreaRAE Monitoring Station Locations 5/03/2013

Project: 40442
Client: OMI
City: West, TX
County: McLennan

GPS coordinates represent approximate locations.
At no time did AR16 leave the facility boundary during
5/02/2013 - 5/03/2013

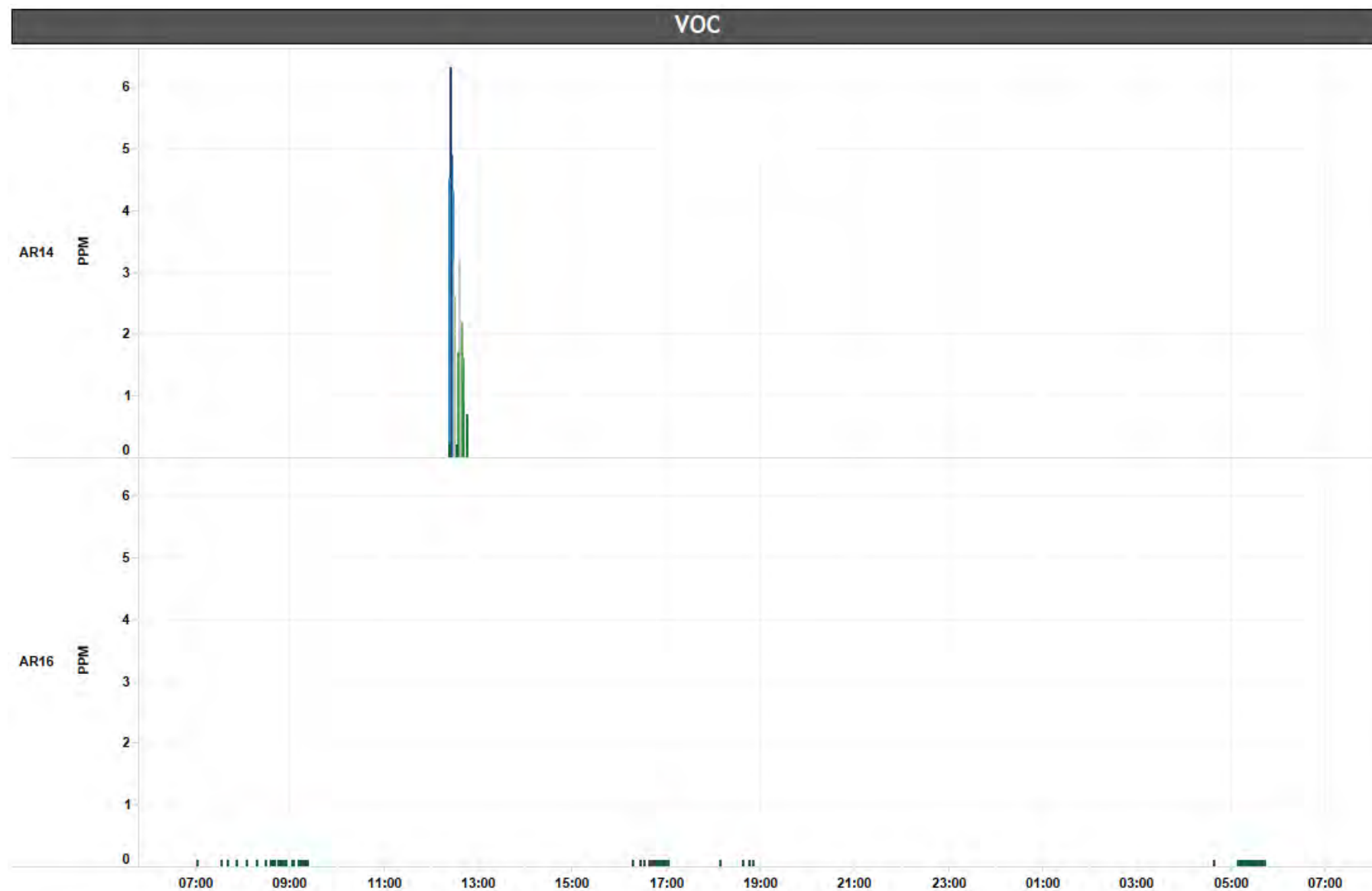
0 125 250 500 750 1,000
Feet



Legend

- Inactive
- Active
- Mobile AreaRAE 16 (Active)
- Facility Boundary

AreaRAE Detections
5/02/2013 07:00 to 5/03/2013 07:00

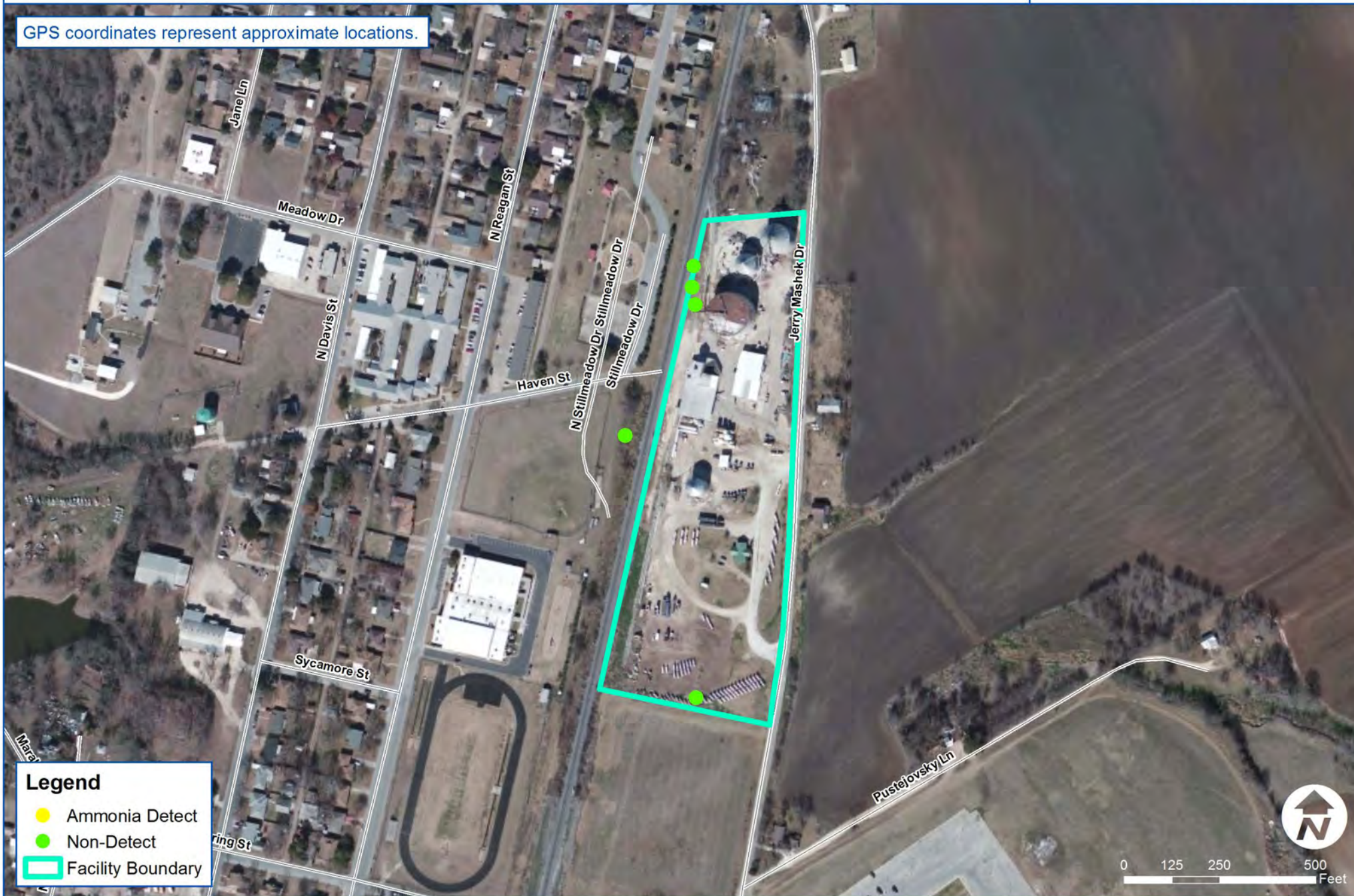


Manually Logged Ammonia Real-Time Readings

5/02/2013 07:00 to 5/03/2013 07:00

Project: 40442
Client: OMI
City: West, TX
County: McLennan

GPS coordinates represent approximate locations.



Legend

- Ammonia Detect
- Non-Detect
- Facility Boundary

Manually Logged PM10 Real-Time Readings 5/02/2013 07:00 to 5/03/2013 07:00

Project: 40442
Client: OMI
City: West, TX
County: McLennan



Manually Logged VOC Real-Time Readings 5/02/2013 07:00 to 5/03/2013 07:00

Project: 40442
Client: OMI
City: West, TX
County: McLennan

GPS coordinates represent approximate locations.

Legend

VOC Detect



VOC Non-Detect



Facility Boundary

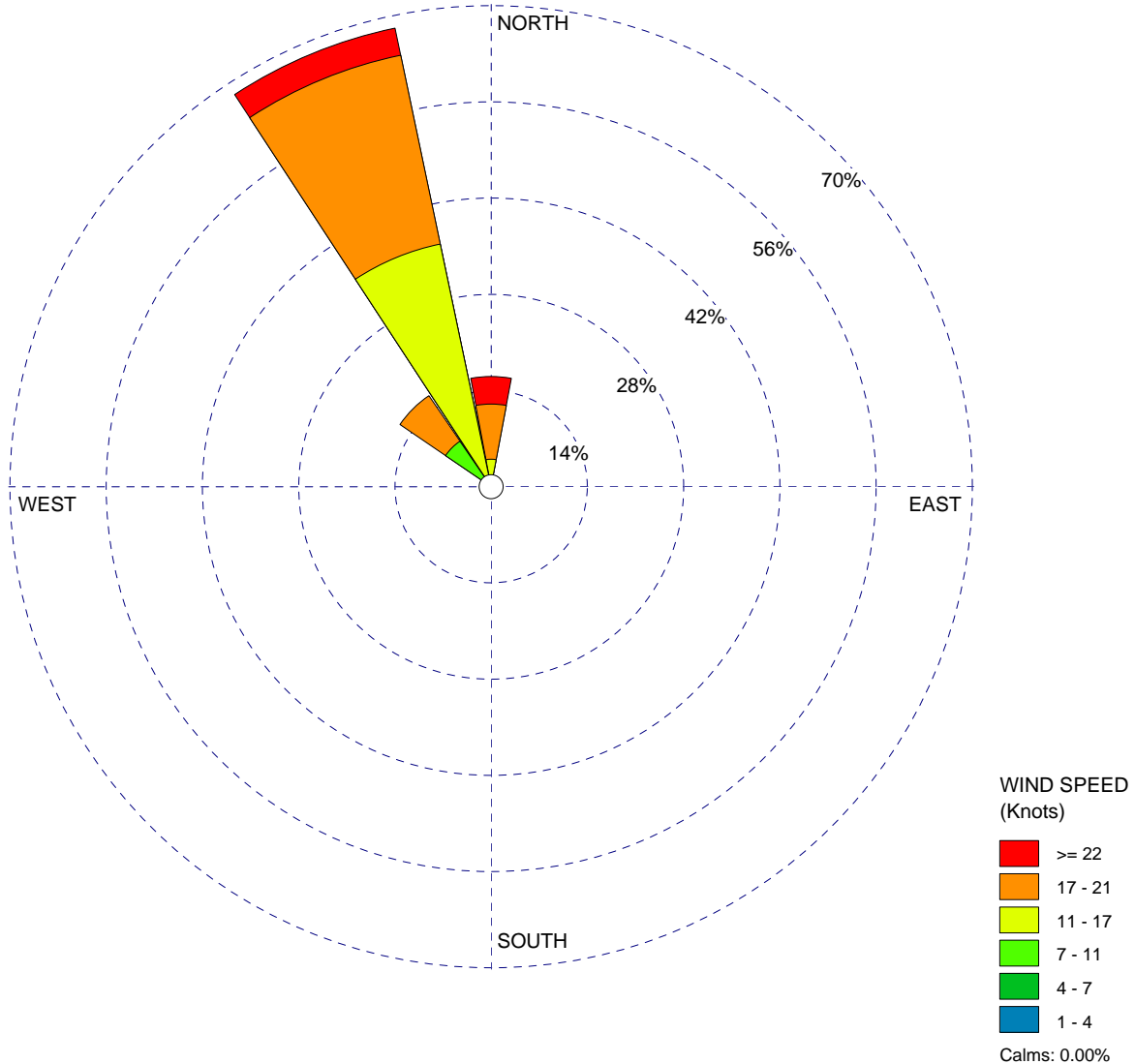


WIND ROSE PLOT:

Wind Speed and Direction 5/2/2013 07:00 to 5/3/2013 07:00
West, TX

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:

Met Station: KACT Waco, TX

COMPANY NAME:

CTEH

MODELER:

Lloyd Long



CALM WINDS:

0.00%

AVG. WIND SPEED:

16.76 Knots

PROJECT NO.:

40442-OMI